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1988 West Coast Troll Log Program

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ABSTRACT

Carter, E. W. 1989. 1988 West Coast Troll Log Program. Can. Data Rep. Fish. Aquat. Sci. 735: 41 p.

In 1988 the Biological Sciences Branch, Pacific Biological Station, conducted the fifth and final year of a Troll Log Program on the west coast of British Columbia and in the Strait of Georgia. A total of 110 vessels participated and the program dealt with a single objective;

> To provide Catch Per Unit Effort (CPUE) of troll-caught salmon in different statistical areas, expressed as Fish per Hour.

This report summarizes the data reported in 1988 and provides comparisons of catch, effort, and CPUE between 1988 and previous years.

RÉSUMÉ

Carter, E. W. 1989. 1988 West Coast Troll Log Program. Can. Data Rep. Fish. Aquat. Sci. 735: 41 p.

La Direction des sciences biologiques de la Station de biologie du Pacifique a mené en 1988, pour la cinquième et dernière année, un Programme de relevés de pêche à la ligne traînante sur la côte ouest de la Colombie-Britannique et dans le détroit de Géorgie. Cent dix bateaux de pêche ont participé au programme, qui n'avait qu'un seul objectif:

> fournir le nombre de prises par unité d'effort (PPUE) du saumon pris à la ligne traînante dans diverses zones statistiques, exprimé en poissons par heure.

Ce rapport résume les données obtenues en 1988 et compare les prises, l'effort et les PPUE entre 1988 et les années précédents.

INTRODUCTION

In 1988 the Troll Log Program involved 87 trollers from the west coast of British Columbia ("Outside") and 23 trollers from the Strait of Georgia ("Inside") for a total of 110 vessels. As in 1987, the program dealt with a single objective;

To provide Catch Per Unit Effort (CPUE) of troll-caught salmon in different statistical areas.

To achieve this objective, fishermen were requested to record the following information on their daily log sheets:

1. Location fished (by map location or two loran coordinates).
2. Number of hours fished (actual time with lines in the water).
3. Number of salmon caught.

For this information the fishermen were paid $5.00 for each fishing day recorded. Log sheets were mailed to the Pacific Biological Station in prepaid envelopes on a weekly or bi-weekly basis. A new log sheet format was used in 1988, with two days of information on each page (Fig. 1).

Of the 110 participants in 1988, all but four have been in the program for more than one year. Consequently, the distribution of fishing effort in each statistical area has remained relatively constant between years.

This report summarizes and compares CPUE information for 1988 and previous years. An earlier publication (Jordan and Carter, 1987) summarized the strap-tagging data for adipose-clipped salmon reported from 1984-1986.

Statistical areas with similar catch rates were grouped into main regions as follows (Fig. 2):

Statistical Area	Region
1 - 5	North Coast
6 - 12	Central Coast
21 - 24	Southwest Vancouver I.
25 - 27	Northwest Vancouver I.
13 - 16	North Strait of Georgia
17 - 18 & 29	South Strait of Georgia

FISHING DAYS - OUTSIDE

Areas 1 - 10

Open July 1 - Aug. 21
Closed Aug. 22 - 30
Reopened Aug. 31 - Sept. 7

Available fishing days: 60

Non-retention of chinook from Aug. 4 to Aug. 30.

Area 11

Open July 1 - Sept. 7

Available fishing days: 69

Non-retention of chinook after Aug. 4

Areas 12 - 27

Open July 1 - Sept. 7

Available fishing days: 69

Non-retention of chinook after Aug. 24

FISHING DAYS - INSIDE

Areas 13 - 18 & 29

July 1 - Sept 30

Available fishing days: 92

CATCH PER UNIT EFFORT

Catch Per Unit Effort (CPUE; number of fish caught per hour) data are summarized by species for individual statistical areas (Table 1) and for grouped areas (Table 2).

Chinook quotas were reached earlier than coho quotas in all Outside areas. In areas 1-10, fishing was closed to chinook between August 4 and August 30 and reopened for eight days on August 31. Area 11 was closed for chinook after August 4 while areas 12-27 were closed after August 24. The overall, combined-area average catch of 491 chinook per vessel (Table 3) was the highest since 1984 (Carter and Jordan 1988; Jordan and Carter 1986, 1987). CPUE was higher in areas 1-5 and 25-27 but lower in areas 6-12 and 21-24 compared to 1987 (Table 4; Fig. 3-5). The highest CPUE was in area 5 at 1.54 fish per hour but with a total catch of only 1288 pieces for the season. Both catch and CPUE for chinook on the Inside were the lowest since the Troll Log Program began in 1985 (Table 6). Catch averaged only 125 chinook per vessel and CPUE averaged 0.22 fish per hour. The highest CPUE was 0.32 fish per hour in area 16, but the total catch was only 246 pieces or 8.5 percent of the total catch.

Coho catches continued to show an overall decline on the Outside since the high catches in 1986, although the CPUE increased in areas 6-12. The average catch for coho in 1988 was 1658 fish per vessel (Table 5). Area 21 recorded the highest CPUE at 6.13 fish per hour for the season. The Inside showed significant increases in catch and CPUE for coho in 1988. The average catch was 2244 fish per vessel, the highest since the program began. The highest CPUE was 5.44 fish per hour in area 14 and the overall CPUE increased to 3.97 on the Inside, up by over one fish per hour (Table 6).

A comparison of fishing effort in individual areas between years (Table 7) shows a similar distribution between areas with most effort expended in areas 1-5 on the Outside and in areas 13-16 on the Inside.

A comparison between the catch by Troll Log fishermen and the total B.C. troll catch (Table 8) indicates that Troll Log fishermen generally caught a higher percentage of the catch of all species in 1988.

DRIFTNET PROGRAM

For a number of years the countries of Taiwan, Korea, and Japan have been conducting an extensive high seas gillnet fishery for flying squid.

General concern has been expressed that "lost" or "discarded" gillnets from this type of fishing could pose a threat to North American fish stocks by "ghost fishing", entangling marine mammals and birds, and causing possible navigational hazards to vessels.

As part of an ongoing study to monitor the incidence of lost or discarded gillnets found in Canadian waters, Troll Log fishermen were again asked to report any sightings and to send samples of nets to assist in determining the origin of the nets. In addition, advertisements were placed in three fishing industry publications and notices were posted at Government wharves to inform the general public.

The number of net samples received was greatly reduced in 1988. Although many reports of sightings were received verbally, only five samples of gillnets were actually sent in. This compares to 24 in 1987 and 15 in 1986. Of these five samples, two were from the Queen Charlotte Islands and three were from the west coast of Vancouver Island.

ACKNOWLEDGEMENTS

I wish to thank the following fishermen who participated in the 1988 program and made it successful:

"WESTCOAST"

Vessel	Fisherman
ALASKAN	GERALD RYAN
BALTIC SPIRIT	STANLEY SAWEL
B.C. BELLE	WAYNE KASKIW
BETTY M II	BILL HAWTHORNTHWAITE
CANADIAN LADY	NORMAND BETTIS
CHARIOT	KEN CAMPBELL
CHIEF WAMISH	GERRY BURKHOLDER
CHRISTINA B	LAWRENCE HAINES
CHRISTINE B	BURT MCCARTHY
COURAGEOUS	GARY LIIMATTA
COWICHAN	GORDON BROOKS
CROWN	BILL MCCLEOD
DARLENDA	STEPHEN WINPENNY
DEANA MAR II	TOM HOPKINS
EARL ROY	ROBERT DUNN
EARLY SPRING I	DON BREEDEN
EBIE	WILLIAM FRANCE
EDNA F	DON ASHBEE
EQUINOX	MICHAEL LEMON
EROS	GEORGE GREER
EVENING BREEZE	PENTI KIISKILA
FANNY BAY II	ROBERT TRAVERS
FLAMINGO	ROBERT GLOVER
FURY BAY	JOHN DISNEY
GEORGIANA	JACK PLACE
GLADIATOR	ERIC ANTILLA
GLADYS U	RAY UBELL
HARDY MAID	MICHAEL MORRIS
HELLS BELLS	THOMAS DORSETT
HELMS DEEP	BOB ALFORD
HIGH STAR	WILLIAM PLACE
HOVILA	ALLAN PATTINSON

Vessel	Fisherman
JABBERWOCK	JOHN BOYTE
JOHNNY CANUCK	JOE KORSA
JR II	WALTER JOHNSON
KARM	CHRIS EARL
LINJO LEE	KARL LILGERT
LOFOTEN II	WALTER SIMPSON
LORI II	BOB THOMPKINS
MAILE II	TOM IKEDA
MARCH GIRL	WAYNE SJOSTROM
MARDIVAL	JOSEPH CADDY
MERILDA	WILLY DUNAN
MISS HARRIET	DON BOOL
NASPARTI	ROGER MILLER
NAWANIE	BOB BISSENDEN
NEO	GREG GOWER
NETANNEYS	BRIAN FORBES
NIGEI ISLE	RICHARD JORDAN
NORNA II	GARY MCCULLOCH
NORTH ISLAND STAR	TOM RUSSEL
NORTHERN STAR	DAVE HARDIE
NORZONE	BRUCE EVANS
NOW THEN	ALLAN CARL
OCEAN RAE	LARRY MAXWELL
OCEAN ROAMER	BRUCE WHITTAKER
OCEAN TROLLER	TOM EARL
OCEAN VOYAGER	JOHN WILLSON
PACIFIC INVADER	DAVE SMITH
PACIFIC KING	BRUCE ROBERTS
PACIFIC SKIPPER	VINCE FANTILLO
PAGAN ISLE	ARTHUR CHESHIRE
PRINCE OF DENMARK	RICHARD ROUSSIN
QUEST II	JOHN NICHOLSON
RAMU	JAMES MORRIS
REGAL VENTURE	UDO BILLING
ROSAN	GLENN MORRIS
SARAH C	ALBERT COOTES
SEA-ESTA IV	EVELYN PINEO
SEABEAM	DICK WILLIAMS
SEASTAR III	BRENT KORSA
SEPTEMBER ISLE	BOB MARTIN
SHAR-BON	ROBERT NAGGE

Vessel	Fisherman
SILVER TIDE	RAY SORHEIM
SONGA	ERIK BINGS
SONORA II	JOSEPH GARCIA
STRANGER III	THOMAS RUSSEL
SURF I	GARY BILLY
SWEET CHANGES	ROBERT EDWARDS
THERESA N	BEN NOOKEMIS
VIKING PRINCESS	RON WILSON
VIRGO	JIM WALTERS
WESCO	DAVE WILLIAMS
WEST FORELAND	PATRICK FORREST
WILDEB	BOB VIERECK
WYVERN	BILL SHEMMING
ZAYAS	TEUNIS WESTBROOK

"STRAIT OF GEORGIA"

Vessel	Fisherman
BECKY JO	JIM RAMESBOTTOM
CAROLYN	STAN GAMBLE
COMANCHERO II	RON PARKE
DREAM WEAVER	LORNE THAMES
FURY	OSCAR VAES
ISLANDER	WALTER OUELLETTE
LEILA ELLEN	DON MOLLARD
LIBERTY BELL	HELMUT BOSE
LITTLE STORMER	PETER WILSON
LUCKY LADY IV	NEIL GUSTAFSON
NANAIMO CHIEF	ROBERT CHAMBERS
OFFSHORE I	DON HELLER
PROSPER	CHARLIE HARRIS
QUICKSILVER	RICK BEST

Vessel	Fisherman
RICHMOND STAR	PETER KLAUI
ROSA MAY	JIM NEWMAN
ROCK N ROLL II	CHARLES HARRIS
SEA STAR II	BOB WHITTAKER
SEQUOIA	DARRYL GIEBELHAUS
SEVENTY FIVE	RON LINDFORS
SILVER STAR NO. 1	TED EDWARDS
STRAIT LIFE	BOB VEZINA
SYLVIA J	ANGUS CROCKER

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Table 1. 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 1	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	670.00	699	1.04	592	0.88	42	0.06	2259	3.37	76	0.11
JULY 3- 9	1755.00	938	0.53	2278	1.30	419	0.24	11490	6.55	577	0.33
JULY 10-16	1576.00	518	0.33	1925	1.22	963	0.61	6609	4.19	634	0.40
JULY 17-23	1260.50	356	0.28	1149	0.91	424	0.34	6126	4.86	328	0.26
JULY 24-30	1647.00	640	0.39	1868	1.13	1159	0.70	18278	11.10	1178	0.72
JULY 31-AUG 6	1229.00	886	0.72	731	0.59	94	0.08	16735	13.62	512	0.42
AUG 7-13	1538.00	0	0.00	1882	1.22	47	0.03	44158	28.71	2503	1.63
AUG 14-20	478.50	0	0.00	834	1.74	3	0.01	0	0.00	335	0.70
AUG 21-27	83.50	0	0.00	157	1.88	1	0.01	0	0.00	49	0.59
AUG 28-SEPT 3	932.50	922	0.99	1317	1.41	5	0.01	0	0.00	147	0.16
SEPT 4-10	342.50	260	0.76	197	0.58	0	0.00	0	0.00	32	0.09
TOTAL	11512.50	5219		12930		3157		105655		6371	

AREA 2E	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	26.00	16	0.62	279	10.73	0	0.00	0	0.00	0	0.00
JULY 3- 9	105.50	274	2.60	279	2.64	0	0.00	3	0.03	1	0.01
JULY 10-16	256.50	542	2.11	541	2.11	1	0.00	23	0.09	1	0.00
JULY 17-23	433.00	542	1.25	811	1.87	15	0.03	4458	10.30	42	0.10
JULY 24-30	132.00	32	0.24	216	1.64	19	0.14	5955	45.11	93	0.70
JULY 31-AUG 6	150.50	30	0.20	701	4.66	2	0.01	2279	15.14	212	1.41
AUG 7-13	225.50	0	0.00	1415	6.27	19	0.08	921	4.08	107	0.47
AUG 14-20	159.00	0	0.00	689	4.33	0	0.00	0	0.00	0	0.00
AUG 21-27	26.50	0	0.00	184	6.94	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	9.00	0	0.00	14	1.56	0	0.00	0	0.00	0	0.00
SEPT 4-10	109.00	2	0.02	392	3.60	0	0.00	0	0.00	6	0.06
TOTAL	1632.50	1438		5521		56		13639		462	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 2W	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	65.00	210	3.23	34	0.52	0	0.00	0	0.00	3	0.05
JULY 3- 9	482.50	559	1.16	139	0.29	3	0.01	40	0.08	32	0.07
JULY 10-16	251.50	200	0.80	158	0.63	6	0.02	67	0.27	21	0.08
JULY 17-23	166.00	192	1.16	62	0.37	1	0.01	139	0.84	7	0.04
JULY 24-30	227.00	273	1.20	81	0.36	1	0.00	357	1.57	32	0.14
JULY 31-AUG 6	298.00	333	1.12	53	0.18	0	0.00	388	1.30	97	0.33
AUG 28-SEPT 3	247.50	668	2.70	40	0.16	0	0.00	0	0.00	36	0.15
TOTAL	1737.50	2435		567		11		991		228	

AREA 3	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	32.00	2	0.06	72	2.25	11	0.34	27	0.84	19	0.59
JULY 3- 9	103.00	15	0.15	140	1.36	21	0.20	100	0.97	151	1.47
JULY 10-16	67.00	14	0.21	230	3.43	18	0.27	241	3.60	47	0.70
JULY 17-23	137.00	33	0.24	104	0.76	87	0.64	431	3.15	97	0.71
JULY 24-30	161.00	12	0.07	67	0.42	333	2.07	1474	9.16	169	1.05
JULY 31-AUG 6	136.00	4	0.03	63	0.46	101	0.74	2650	19.49	260	1.91
AUG 7-13	453.00	0	0.00	278	0.61	117	0.26	5870	12.96	640	1.41
AUG 14-20	28.00	0	0.00	74	2.64	0	0.00	0	0.00	0	0.00
AUG 21-27	12.00	0	0.00	15	1.25	0	0.00	0	0.00	0	0.00
SEPT 4-10	2.00	4	2.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL	1131.00	84		1043		688		10793		1383	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 4	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	16.00	4	0.25	114	7.13	0	0.00	29	1.81	0	0.00
JULY 3- 9	165.00	84	0.51	1070	6.48	32	0.19	548	3.32	16	0.10
JULY 10-16	154.00	34	0.22	522	3.39	66	0.43	1275	8.28	82	0.53
JULY 17-23	1.00	0	0.00	1	1.00	0	0.00	0	0.00	0	0.00
JULY 24-30	37.00	9	0.24	48	1.30	1	0.03	98	2.65	17	0.46
JULY 31-AUG 6	75.50	5	0.07	188	2.49	11	0.15	507	6.72	8	0.11
AUG 7-13	3.00	0	0.00	10	3.33	0	0.00	37	12.33	3	1.00
AUG 14-20	48.00	0	0.00	120	2.50	1	0.02	30	0.63	12	0.25
AUG 28-SEPT 3	15.00	7	0.47	52	3.47	0	0.00	0	0.00	0	0.00
SEPT 4-10	52.50	3	0.06	130	2.48	0	0.00	0	0.00	3	0.06
TOTAL	567.00	146		2255		111		2524		141	

AREA 5	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	31.00	2	0.06	24	0.77	0	0.00	0	0.00	0	0.00
JULY 3- 9	170.50	442	2.59	353	2.07	0	0.00	23	0.13	4	0.02
JULY 10-16	147.00	411	2.80	352	2.39	0	0.00	45	0.31	5	0.03
JULY 17-23	187.00	213	1.14	534	2.86	0	0.00	49	0.26	3	0.02
JULY 24-30	92.00	82	0.89	284	3.09	0	0.00	25	0.27	0	0.00
JULY 31-AUG 6	122.00	76	0.62	618	5.07	0	0.00	652	5.34	7	0.06
AUG 7-13	133.00	0	0.00	822	6.18	1	0.01	746	5.61	4	0.03
AUG 14-20	113.50	0	0.00	638	5.62	0	0.00	0	0.00	31	0.27
AUG 21-27	8.00	0	0.00	5	0.63	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	18.00	14	0.78	39	2.17	0	0.00	0	0.00	0	0.00
SEPT 4-10	70.00	48	0.69	81	1.16	0	0.00	0	0.00	1	0.01
TOTAL	1092.00	1288		3750		1		1540		55	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 6	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	46.50	41	0.88	38	0.82	0	0.00	5	0.11	0	0.00
JULY 3- 9	104.00	114	1.10	75	0.72	1	0.01	37	0.36	0	0.00
JULY 10-16	69.00	26	0.38	112	1.62	2	0.03	898	13.01	59	0.86
JULY 17-23	160.50	7	0.04	221	1.38	4	0.02	5315	33.12	156	0.97
JULY 24-30	223.00	16	0.07	146	0.65	5	0.02	13571	60.86	177	0.79
JULY 31-AUG 6	126.50	0	0.00	64	0.51	0	0.00	4137	32.70	60	0.47
AUG 7-13	52.00	0	0.00	42	0.81	0	0.00	680	13.08	7	0.13
AUG 14-20	4.00	0	0.00	2	0.50	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	27.00	1	0.04	69	2.56	0	0.00	0	0.00	0	0.00
SEPT 4-10	38.00	3	0.08	46	1.21	0	0.00	0	0.00	0	0.00
TOTAL	850.50	208		815		12		24643		459	

AREA 7	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	53.50	28	0.52	66	1.23	0	0.00	44	0.82	2	0.04
JULY 3- 9	169.00	139	0.82	98	0.58	0	0.00	12	0.07	0	0.00
JULY 10-16	100.00	84	0.84	125	1.25	0	0.00	42	0.42	3	0.03
JULY 17-23	119.50	64	0.54	140	1.17	0	0.00	184	1.54	1	0.01
JULY 24-30	109.50	55	0.50	200	1.83	0	0.00	444	4.05	0	0.00
JULY 31-AUG 6	125.00	16	0.13	128	1.02	1	0.01	1656	13.25	83	0.66
AUG 7-13	45.50	0	0.00	18	0.40	7	0.15	564	12.40	27	0.59
AUG 14-20	19.00	0	0.00	23	1.21	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	248.50	80	0.32	423	1.70	0	0.00	0	0.00	2	0.01
SEPT 4-10	71.50	9	0.13	50	0.70	0	0.00	0	0.00	0	0.00
TOTAL	1061.00	475		1271		8		2946		118	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 8	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JULY 24-30	4.00	0	0.00	3	0.75	0	0.00	12	3.00	1	0.25
JULY 31-AUG 6	12.00	1	0.08	9	0.75	0	0.00	136	11.33	29	2.42
AUG 28-SEPT 3	20.00	7	0.35	10	0.50	0	0.00	0	0.00	0	0.00
TOTAL	36.00	8		22		0		148		30	

AREA 9	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JULY 10-16	73.50	1	0.01	61	0.83	653	8.88	110	1.50	3	0.04
JULY 17-23	89.50	0	0.00	15	0.17	421	4.70	921	10.29	11	0.12
JULY 24-30	201.50	10	0.05	39	0.19	1012	5.02	4809	23.87	30	0.15
JULY 31-AUG 6	145.00	11	0.08	63	0.43	143	0.99	4299	29.65	116	0.80
AUG 7-13	184.50	0	0.00	249	1.35	41	0.22	2817	15.27	284	1.54
AUG 14-20	19.00	0	0.00	28	1.47	0	0.00	0	0.00	40	2.11
TOTAL	713.00	22		455		2270		12956		484	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 10	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JULY 10-16	8.50	7	0.82	12	1.41	0	0.00	0	0.00	0	0.00
JULY 17-23	155.50	171	1.10	780	5.02	14	0.09	433	2.78	24	0.15
JULY 24-30	83.00	34	0.41	704	8.48	4	0.05	211	2.54	2	0.02
JULY 31-AUG 6	109.00	5	0.05	237	2.17	1	0.01	1565	14.36	34	0.31
AUG 7-13	58.00	3	0.05	166	2.86	0	0.00	358	6.17	27	0.47
AUG 28-SEPT 3	13.00	0	0.00	8	0.62	0	0.00	0	0.00	0	0.00
SEPT 4-10	20.00	6	0.30	15	0.75	0	0.00	0	0.00	0	0.00
TOTAL	447.00	226		1922		19		2567		87	

AREA 11	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	167.00	241	1.44	2283	13.67	0	0.00	79	0.47	9	0.05
JULY 3- 9	469.00	576	1.23	4768	10.17	0	0.00	96	0.20	83	0.18
JULY 10-16	666.50	382	0.57	3465	5.20	143	0.21	558	0.84	238	0.36
JULY 17-23	741.50	613	0.83	1887	2.54	83	0.11	2269	3.06	210	0.28
JULY 24-30	844.50	243	0.29	2721	3.22	9	0.01	8798	10.42	256	0.30
JULY 31-AUG 6	658.00	142	0.22	2875	4.37	1	0.00	5162	7.84	147	0.22
AUG 7-13	566.00	0	0.00	1443	2.55	0	0.00	1501	2.65	869	1.54
AUG 14-20	126.50	5	0.04	177	1.40	0	0.00	1	0.01	190	1.50
AUG 21-27	61.50	0	0.00	95	1.54	0	0.00	0	0.00	14	0.23
AUG 28-SEPT 3	294.50	152	0.52	271	0.92	0	0.00	0	0.00	1	0.00
SEPT 4-10	135.00	78	0.58	176	1.30	0	0.00	0	0.00	0	0.00
TOTAL	4730.00	2432		20161		236		18464		2017	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 12	HOURS FISHED	CHINOOK KEPT NO.	CHINOOK KEPT PER HOUR	COHO KEPT NO.	COHO KEPT PER HOUR	SOCKEYE KEPT NO.	SOCKEYE KEPT PER HOUR	PINK KEPT NO.	PINK KEPT PER HOUR	CHUM KEPT NO.	CHUM KEPT PER HOUR
JULY 31-AUG 6	12.00	3	0.25	96	8.00	0	0.00	91	7.58	0	0.00
AUG 14-20	111.00	18	0.16	344	3.10	0	0.00	0	0.00	0	0.00
AUG 21-27	87.00	7	0.08	225	2.59	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	42.50	0	0.00	62	1.46	0	0.00	0	0.00	0	0.00
SEPT 4-10	23.00	0	0.00	30	1.30	0	0.00	0	0.00	0	0.00
TOTAL	275.50	28		757		0		91		0	

AREA 21	HOURS FISHED	CHINOOK KEPT NO.	CHINOOK KEPT PER HOUR	COHO KEPT NO.	COHO KEPT PER HOUR	SOCKEYE KEPT NO.	SOCKEYE KEPT PER HOUR	PINK KEPT NO.	PINK KEPT PER HOUR	CHUM KEPT NO.	CHUM KEPT PER HOUR
JUNE 25-JULY 2	26.00	5	0.19	177	6.81	1	0.04	0	0.00	0	0.00
JULY 3- 9	44.00	31	0.70	166	3.77	0	0.00	2	0.05	0	0.00
JULY 24-30	60.00	47	0.78	338	5.63	0	0.00	0	0.00	0	0.00
JULY 31-AUG 6	72.50	55	0.76	573	7.90	0	0.00	0	0.00	1	0.01
AUG 7-13	204.00	135	0.66	1191	5.84	0	0.00	0	0.00	0	0.00
AUG 14-20	392.50	208	0.53	2820	7.18	0	0.00	0	0.00	0	0.00
AUG 21-27	349.50	104	0.30	2022	5.79	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	176.50	0	0.00	832	4.71	0	0.00	0	0.00	0	0.00
SEPT 4-10	72.50	0	0.00	441	6.08	0	0.00	0	0.00	0	0.00
TOTAL	1397.50	585		8560		1		2		1	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 23	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	316.00	856	2.71	1495	4.73	2	0.01	35	0.11	0	0.00
JULY 3- 9	744.50	1471	1.98	2379	3.20	1	0.00	33	0.04	9	0.01
JULY 10-16	275.00	437	1.59	595	2.16	7	0.03	4	0.01	3	0.01
JULY 17-23	168.00	120	0.71	997	5.93	0	0.00	1	0.01	3	0.02
JULY 24-30	636.50	909	1.43	2036	3.20	1	0.00	1	0.00	5	0.01
JULY 31-AUG 6	1021.50	1516	1.48	2491	2.44	0	0.00	63	0.06	6	0.01
AUG 7-13	1094.50	1407	1.29	1632	1.49	0	0.00	5	0.00	0	0.00
AUG 14-20	783.00	666	0.85	2584	3.30	0	0.00	0	0.00	0	0.00
AUG 21-27	605.50	182	0.30	2295	3.79	0	0.00	1	0.00	1	0.00
AUG 28-SEPT 3	496.00	79	0.16	2437	4.91	0	0.00	1	0.00	0	0.00
SEPT 4-10	125.50	0	0.00	437	3.48	0	0.00	0	0.00	0	0.00
TOTAL	6266.00	7643		19378		11		144		27	

AREA 24	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	508.50	777	1.53	6347	12.48	0	0.00	131	0.26	86	0.17
JULY 3- 9	1068.00	1264	1.18	5955	5.58	0	0.00	50	0.05	57	0.05
JULY 10-16	551.50	421	0.76	1447	2.62	221	0.40	16	0.03	65	0.12
JULY 17-23	639.00	248	0.39	2686	4.20	1588	2.49	68	0.11	140	0.22
JULY 24-30	607.50	384	0.63	2470	4.07	0	0.00	11	0.02	7	0.01
JULY 31-AUG 6	542.50	341	0.63	1917	3.53	0	0.00	97	0.18	2	0.00
AUG 7-13	806.00	640	0.79	2970	3.68	0	0.00	4	0.00	0	0.00
AUG 14-20	563.00	368	0.65	1560	2.77	0	0.00	0	0.00	0	0.00
AUG 21-27	588.50	338	0.57	1013	1.72	0	0.00	0	0.00	4	0.01
AUG 28-SEPT 3	451.50	0	0.00	1080	2.39	0	0.00	0	0.00	3	0.01
SEPT 4-10	16.00	0	0.00	75	4.69	0	0.00	0	0.00	0	0.00
TOTAL	6342.00	4781		27520		1809		377		364	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 25	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	61.50	118	1.92	1571	25.54	0	0.00	20	0.33	1	0.02
JULY 3- 9	688.50	528	0.77	4781	6.94	0	0.00	120	0.17	126	0.18
JULY 10-16	654.50	699	1.07	1106	1.69	225	0.34	583	0.89	199	0.30
JULY 17-23	273.00	269	0.99	613	2.25	215	0.79	10	0.04	13	0.05
JULY 24-30	545.50	674	1.24	1317	2.41	0	0.00	32	0.06	6	0.01
JULY 31-AUG 6	160.00	227	1.42	168	1.05	0	0.00	5	0.03	6	0.04
AUG 7-13	135.00	150	1.11	278	2.06	0	0.00	4	0.03	2	0.01
AUG 14-20	317.00	382	1.21	437	1.38	0	0.00	3	0.01	2	0.01
AUG 21-27	103.00	76	0.74	239	2.32	0	0.00	0	0.00	2	0.02
AUG 28-SEPT 3	28.00	0	0.00	76	2.71	0	0.00	0	0.00	5	0.18
TOTAL	2966.00	3123		10586		440		777		362	

AREA 26	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	126.00	196	1.56	3384	26.86	0	0.00	97	0.77	21	0.17
JULY 3- 9	501.50	590	1.18	3199	6.38	2	0.00	215	0.43	68	0.14
JULY 10-16	426.00	444	1.04	1363	3.20	176	0.41	745	1.75	126	0.30
JULY 17-23	290.00	239	0.82	711	2.45	62	0.21	63	0.22	323	1.11
JULY 24-30	314.50	234	0.74	909	2.89	0	0.00	451	1.43	15	0.05
JULY 31-AUG 6	82.00	42	0.51	274	3.34	0	0.00	13	0.16	2	0.02
AUG 7-13	249.50	210	0.84	494	1.98	0	0.00	37	0.15	0	0.00
AUG 14-20	100.50	95	0.95	96	0.96	0	0.00	0	0.00	1	0.01
AUG 21-27	55.00	48	0.87	49	0.89	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	16.00	0	0.00	17	1.06	0	0.00	0	0.00	0	0.00
TOTAL	2161.00	2098		10496		240		1621		556	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 1-12, 21-27.

AREA 27	HOURS FISHED	CHINOOK KEPT NO.	CHINOOK KEPT PER HOUR	COHO KEPT NO.	COHO KEPT PER HOUR	SOCKEYE KEPT NO.	SOCKEYE KEPT PER HOUR	PINK KEPT NO.	PINK KEPT PER HOUR	CHUM KEPT NO.	CHUM KEPT PER HOUR
JUNE 25-JULY 2	322.50	1820	5.64	2601	8.07	6	0.02	442	1.37	53	0.16
JULY 3- 9	1390.00	3326	2.39	5984	4.31	56	0.04	720	0.52	193	0.14
JULY 10-16	1281.00	1475	1.15	2207	1.72	756	0.59	3817	2.98	612	0.48
JULY 17-23	808.50	727	0.90	1059	1.31	188	0.23	3127	3.87	563	0.70
JULY 24-30	594.50	499	0.84	1150	1.93	0	0.00	5673	9.54	197	0.33
JULY 31-AUG 6	428.50	287	0.67	461	1.08	20	0.05	1541	3.60	145	0.34
AUG 7-13	716.00	477	0.67	926	1.29	2	0.00	770	1.08	35	0.05
AUG 14-20	1162.00	1387	1.19	995	0.86	0	0.00	31	0.03	56	0.05
AUG 21-27	632.50	351	0.55	524	0.83	0	0.00	1	0.00	2	0.00
AUG 28-SEPT 3	152.00	69	0.45	203	1.34	0	0.00	0	0.00	0	0.00
SEPT 4-10	62.50	25	0.40	148	2.37	0	0.00	0	0.00	0	0.00
TOTAL	7550.00	10443		16258		1028		16122		1856	
GRAND	52468.00	42682		144267		10098		216000		15001	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 13-18 & 29.

AREA 13	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
AUG 7-13	210.00	0	0.00	0	0.00	0	0.00	2647	12.60	0	0.00
AUG 14-20	84.50	7	0.08	156	1.85	110	1.30	71	0.84	0	0.00
SEPT 18-24	25.00	0	0.00	8	0.32	0	0.00	1	0.04	38	1.52
SEPT 25-OCT 1	23.00	0	0.00	1	0.04	0	0.00	1	0.04	26	1.13
TOTAL	342.50	7		165		110		2720		64	

AREA 14	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	371.50	347	0.93	3715	10.00	0	0.00	9	0.02	0	0.00
JULY 3- 9	1293.00	606	0.47	10466	8.09	3	0.00	26	0.02	0	0.00
JULY 10-16	885.00	391	0.44	5850	6.61	0	0.00	7	0.01	0	0.00
JULY 17-23	943.00	117	0.12	5585	5.92	0	0.00	13	0.01	0	0.00
JULY 24-30	474.50	81	0.17	2258	4.76	10	0.02	5	0.01	0	0.00
JULY 31-AUG 6	609.50	78	0.13	2436	4.00	1	0.00	12	0.02	0	0.00
AUG 7-13	441.00	57	0.13	1653	3.75	0	0.00	10	0.02	0	0.00
AUG 14-20	138.00	25	0.18	489	3.54	0	0.00	0	0.00	0	0.00
AUG 21-27	663.50	82	0.12	2758	4.16	0	0.00	1	0.00	0	0.00
AUG 28-SEPT 3	516.50	42	0.08	1557	3.01	1	0.00	0	0.00	0	0.00
SEPT 4-10	378.50	31	0.08	1313	3.47	0	0.00	0	0.00	0	0.00
SEPT 11-17	390.50	44	0.11	1153	2.95	0	0.00	1	0.00	0	0.00
SEPT 18-24	130.00	8	0.06	330	2.54	0	0.00	0	0.00	0	0.00
SEPT 25-OCT 1	74.00	1	0.01	184	2.49	0	0.00	0	0.00	0	0.00
TOTAL	7308.50	1910		39747		15		84		0	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 13-18 & 29.

AREA 15	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	25.00	10	0.40	183	7.32	0	0.00	0	0.00	0	0.00
JULY 3- 9	82.00	29	0.35	393	4.79	0	0.00	5	0.06	0	0.00
JULY 10-16	129.00	35	0.27	547	4.24	0	0.00	3	0.02	0	0.00
JULY 17-23	8.00	0	0.00	41	5.13	0	0.00	0	0.00	0	0.00
JULY 24-30	51.00	10	0.20	169	3.31	3	0.06	0	0.00	0	0.00
JULY 31-AUG 6	69.00	7	0.10	138	2.00	0	0.00	0	0.00	0	0.00
AUG 7-13	54.00	15	0.28	77	1.43	0	0.00	0	0.00	0	0.00
AUG 14-20	34.00	6	0.18	77	2.26	0	0.00	0	0.00	0	0.00
AUG 21-27	67.00	1	0.01	164	2.45	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	96.00	7	0.07	250	2.60	0	0.00	0	0.00	0	0.00
SEPT 4-10	34.00	12	0.35	9	0.26	0	0.00	0	0.00	0	0.00
SEPT 11-17	22.00	1	0.05	46	2.09	0	0.00	0	0.00	0	0.00
SEPT 18-24	4.00	0	0.00	3	0.75	0	0.00	0	0.00	0	0.00
SEPT 25-OCT 1	6.00	1	0.17	7	1.17	0	0.00	0	0.00	0	0.00
TOTAL	681.00	134		2104		3		8		0	

AREA 16	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	14.00	18	1.29	144	10.29	0	0.00	0	0.00	0	0.00
JULY 3- 9	133.50	96	0.72	674	5.05	0	0.00	1	0.01	0	0.00
JULY 10-16	78.00	31	0.40	303	3.88	0	0.00	3	0.04	0	0.00
JULY 17-23	140.00	25	0.18	866	6.19	0	0.00	1	0.01	0	0.00
JULY 24-30	208.00	58	0.28	603	2.90	37	0.18	1	0.00	0	0.00
JULY 31-AUG 6	74.00	10	0.14	373	5.04	0	0.00	3	0.04	0	0.00
AUG 7-13	52.00	3	0.06	113	2.17	0	0.00	0	0.00	0	0.00
AUG 14-20	25.00	1	0.04	54	2.16	1	0.04	2	0.08	0	0.00
AUG 21-27	34.00	1	0.03	52	1.53	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	14.00	1	0.07	12	0.86	0	0.00	0	0.00	0	0.00
SEPT 4-10	13.00	2	0.15	72	5.54	0	0.00	0	0.00	0	0.00
TOTAL	785.50	246		3266		38		11		0	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 13-18 & 29.

AREA 17	HOURS FISHED	CHINOOK KEPT NO.	CHINOOK KEPT PER HOUR	COHO KEPT NO.	COHO KEPT PER HOUR	SOCKEYE KEPT NO.	SOCKEYE KEPT PER HOUR	PINK KEPT NO.	PINK KEPT PER HOUR	CHUM KEPT NO.	CHUM KEPT PER HOUR
JUNE 25-JULY 2	90.00	37	0.41	168	1.87	0	0.00	1	0.01	0	0.00
JULY 3- 9	168.00	128	0.76	166	0.99	0	0.00	2	0.01	0	0.00
JULY 10-16	347.50	143	0.41	1458	4.20	0	0.00	3	0.01	0	0.00
JULY 17-23	186.50	42	0.23	336	1.80	0	0.00	0	0.00	0	0.00
JULY 24-30	61.00	4	0.07	238	3.90	0	0.00	0	0.00	0	0.00
JULY 31-AUG 6	197.50	22	0.11	595	3.01	0	0.00	0	0.00	0	0.00
AUG 7-13	283.50	46	0.16	1012	3.57	0	0.00	4	0.01	0	0.00
AUG 14-20	69.00	6	0.09	313	4.54	0	0.00	0	0.00	0	0.00
AUG 21-27	65.00	6	0.09	77	1.18	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	69.00	5	0.07	277	4.01	0	0.00	0	0.00	0	0.00
SEPT 4-10	92.00	16	0.17	140	1.52	0	0.00	1	0.01	0	0.00
SEPT 11-17	69.00	17	0.25	168	2.43	0	0.00	0	0.00	0	0.00
SEPT 18-24	65.50	13	0.20	205	3.13	0	0.00	0	0.00	2	0.03
SEPT 25-OCT 1	19.00	2	0.11	30	1.58	0	0.00	0	0.00	22	1.16
TOTAL	1782.50	487		5183		0		11		24	

AREA 18	HOURS FISHED	CHINOOK KEPT NO.	CHINOOK KEPT PER HOUR	COHO KEPT NO.	COHO KEPT PER HOUR	SOCKEYE KEPT NO.	SOCKEYE KEPT PER HOUR	PINK KEPT NO.	PINK KEPT PER HOUR	CHUM KEPT NO.	CHUM KEPT PER HOUR
JULY 3- 9	10.00	7	0.70	5	0.50	0	0.00	0	0.00	0	0.00
JULY 17-23	8.00	0	0.00	15	1.88	0	0.00	0	0.00	0	0.00
JULY 24-30	631.50	11	0.02	102	0.16	2931	4.64	3	0.00	0	0.00
AUG 14-20	382.50	5	0.01	50	0.13	2717	7.10	0	0.00	0	0.00
AUG 21-27	14.00	5	0.36	4	0.29	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	36.00	16	0.44	14	0.39	0	0.00	0	0.00	0	0.00
SEPT 4-10	10.00	2	0.20	2	0.20	0	0.00	0	0.00	0	0.00
SEPT 11-17	18.50	3	0.16	3	0.16	0	0.00	0	0.00	0	0.00
SEPT 18-24	12.00	4	0.33	3	0.25	0	0.00	0	0.00	0	0.00
SEPT 25-OCT 1	12.00	2	0.17	6	0.50	0	0.00	0	0.00	0	0.00
TOTAL	1134.50	55		204		5648		3		0	

Table 1 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Areas 13-18 & 29.

AREA 29	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JULY 3- 9	14.00	4	0.29	40	2.86	0	0.00	0	0.00	0	0.00
JULY 10-16	29.50	20	0.68	52	1.76	0	0.00	0	0.00	0	0.00
JULY 24-30	40.00	0	0.00	101	2.53	3	0.08	0	0.00	0	0.00
JULY 31-AUG 6	38.00	4	0.11	143	3.76	0	0.00	1	0.03	0	0.00
AUG 7-13	41.00	1	0.02	151	3.68	0	0.00	1	0.02	0	0.00
AUG 14-20	181.00	2	0.01	92	0.51	1090	6.02	0	0.00	0	0.00
AUG 21-27	28.00	3	0.11	78	2.79	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	57.00	5	0.09	115	2.02	0	0.00	0	0.00	0	0.00
SEPT 4-10	34.00	2	0.06	93	2.74	0	0.00	0	0.00	0	0.00
SEPT 11-17	39.00	5	0.13	14	0.36	119	3.05	0	0.00	0	0.00
SEPT 18-24	171.00	1	0.01	53	0.31	2369	13.85	0	0.00	6	0.04
SEPT 25-OCT 1	296.00	0	0.00	19	0.06	3374	11.40	0	0.00	14	0.05
TOTAL	968.50	47		951		6955		2		20	
GRAND	13003.00	2886		51620		12769		2839		108	

Table 2. 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Combined Areas.

GENERAL AREA : North Coast

AREA 1-5	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	840.00	933	1.11	1115	1.33	53	0.06	2315	2.76	98	0.12
JULY 3- 9	2781.50	2312	0.83	4259	1.53	475	0.17	12204	4.39	781	0.28
JULY 10-16	2452.00	1719	0.70	3728	1.52	1054	0.43	8260	3.37	790	0.32
JULY 17-23	2184.50	1336	0.61	2661	1.22	527	0.24	11203	5.13	477	0.22
JULY 24-30	2296.00	1048	0.46	2564	1.12	1513	0.66	26187	11.41	1489	0.65
JULY 31-AUG 6	2011.00	1334	0.66	2354	1.17	208	0.10	23211	11.54	1096	0.55
AUG 7-13	2352.50	0	0.00	4407	1.87	184	0.08	51732	21.99	3257	1.38
AUG 14-20	827.00	0	0.00	2355	2.85	4	0.00	30	0.04	378	0.46
AUG 21-27	130.00	0	0.00	361	2.78	1	0.01	0	0.00	49	0.38
AUG 28-SEPT 3	1222.00	1611	1.32	1462	1.20	5	0.00	0	0.00	183	0.15
SEPT 4-10	576.00	317	0.55	800	1.39	0	0.00	0	0.00	42	0.07
TOTAL	17672.50	10610		26066		4024		135142		8640	

GENERAL AREA : Central Coast

AREA 6-12	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	267.00	310	1.16	2387	8.94	0	0.00	128	0.48	11	0.04
JULY 3- 9	742.00	829	1.12	4941	6.66	1	0.00	145	0.20	83	0.11
JULY 10-16	917.50	500	0.54	3775	4.11	798	0.87	1608	1.75	303	0.33
JULY 17-23	1266.50	855	0.68	3043	2.40	522	0.41	9122	7.20	402	0.32
JULY 24-30	1465.50	358	0.24	3813	2.60	1030	0.70	27845	19.00	466	0.32
JULY 31-AUG 6	1187.50	178	0.15	3472	2.92	146	0.12	17046	14.35	469	0.39
AUG 7-13	906.00	3	0.00	1918	2.12	48	0.05	5920	6.53	1214	1.34
AUG 14-20	279.50	23	0.08	574	2.05	0	0.00	1	0.00	230	0.82
AUG 21-27	148.50	7	0.05	320	2.15	0	0.00	0	0.00	14	0.09
AUG 28-SEPT 3	645.50	240	0.37	843	1.31	0	0.00	0	0.00	3	0.00
SEPT 4-10	287.50	96	0.33	317	1.10	0	0.00	0	0.00	0	0.00
TOTAL	8113.00	3399		25403		2545		61815		3195	

Table 2 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Combined Areas.

GENERAL AREA : Southwest Vancouver Island

AREA 21-24	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	850.50	1638	1.93	8019	9.43	3	0.00	166	0.20	86	0.10
JULY 3- 9	1856.50	2766	1.49	8500	4.58	1	0.00	85	0.05	66	0.04
JULY 10-16	826.50	858	1.04	2042	2.47	228	0.28	20	0.02	68	0.08
JULY 17-23	807.00	368	0.46	3683	4.56	1588	1.97	69	0.09	143	0.18
JULY 24-30	1304.00	1340	1.03	4844	3.71	1	0.00	12	0.01	12	0.01
JULY 31-AUG 6	1636.50	1912	1.17	4981	3.04	0	0.00	160	0.10	9	0.01
AUG 7-13	2104.50	2182	1.04	5793	2.75	0	0.00	9	0.00	0	0.00
AUG 14-20	1738.50	1242	0.71	6964	4.01	0	0.00	0	0.00	0	0.00
AUG 21-27	1543.50	624	0.40	5330	3.45	0	0.00	1	0.00	5	0.00
AUG 28-SEPT 3	1124.00	79	0.07	4349	3.87	0	0.00	1	0.00	3	0.00
SEPT 4-10	214.00	0	0.00	953	4.45	0	0.00	0	0.00	0	0.00
TOTAL	14005.50	13009		55458		1821		523		392	

GENERAL AREA : Northwest Vancouver Island

AREA 25-27	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	510.00	2134	4.18	7556	14.82	6	0.01	559	1.10	75	0.15
JULY 3- 9	2580.00	4444	1.72	13964	5.41	58	0.02	1055	0.41	387	0.15
JULY 10-16	2361.50	2618	1.11	4676	1.98	1157	0.49	5145	2.18	937	0.40
JULY 17-23	1371.50	1235	0.90	2383	1.74	465	0.34	3200	2.33	899	0.66
JULY 24-30	1454.50	1407	0.97	3376	2.32	0	0.00	6156	4.23	218	0.15
JULY 31-AUG 6	670.50	556	0.83	903	1.35	20	0.03	1559	2.33	153	0.23
AUG 7-13	1100.50	837	0.76	1698	1.54	2	0.00	811	0.74	37	0.03
AUG 14-20	1579.50	1864	1.18	1528	0.97	0	0.00	34	0.02	59	0.04
AUG 21-27	790.50	475	0.60	812	1.03	0	0.00	1	0.00	4	0.01
AUG 28-SEPT 3	196.00	69	0.35	296	1.51	0	0.00	0	0.00	5	0.03
SEPT 4-10	62.50	25	0.40	148	2.37	0	0.00	0	0.00	0	0.00
TOTAL	12677.00	15664		37340		1708		18520		2774	

Table 2 (cont'd). 1988 West Coast Troll Log Program.
Summary of Catch Per Unit Effort by Week in Combined Areas.

GENERAL AREA : North Strait of Georgia

AREA 13-16	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	410.50	375	0.91	4042	9.85	0	0.00	9	0.02	0	0.00
JULY 3- 9	1508.50	731	0.48	11533	7.65	3	0.00	32	0.02	0	0.00
JULY 10-16	1092.00	457	0.42	6700	6.14	0	0.00	13	0.01	0	0.00
JULY 17-23	1091.00	142	0.13	6492	5.95	0	0.00	14	0.01	0	0.00
JULY 24-30	733.50	149	0.20	3030	4.13	50	0.07	6	0.01	0	0.00
JULY 31-AUG 6	752.50	95	0.13	2947	3.92	1	0.00	15	0.02	0	0.00
AUG 7-13	757.00	75	0.10	1843	2.43	0	0.00	2657	3.51	0	0.00
AUG 14-20	281.50	39	0.14	776	2.76	111	0.39	73	0.26	0	0.00
AUG 21-27	764.50	84	0.11	2974	3.89	0	0.00	1	0.00	0	0.00
AUG 28-SEPT 3	626.50	50	0.08	1819	2.90	1	0.00	0	0.00	0	0.00
SEPT 4-10	425.50	45	0.11	1394	3.28	0	0.00	0	0.00	0	0.00
SEPT 11-17	412.50	45	0.11	1199	2.91	0	0.00	1	0.00	0	0.00
SEPT 18-24	159.00	8	0.05	341	2.14	0	0.00	1	0.01	38	0.24
SEPT 25-OCT 1	103.00	2	0.02	192	1.86	0	0.00	1	0.01	26	0.25
TOTAL	9117.50	2297		45282		166		2823		64	

GENERAL AREA: South Strait of Georgia

AREA 17-18 & 29	HOURS FISHED	CHINOOK KEPT		COHO KEPT		SOCKEYE KEPT		PINK KEPT		CHUM KEPT	
		NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR	NO.	PER HOUR
JUNE 25-JULY 2	90.00	37	0.41	168	1.87	0	0.00	1	0.01	0	0.00
JULY 3- 9	192.00	139	0.72	211	1.10	0	0.00	2	0.01	0	0.00
JULY 10-16	377.00	163	0.43	1510	4.01	0	0.00	3	0.01	0	0.00
JULY 17-23	194.50	42	0.22	351	1.80	0	0.00	0	0.00	0	0.00
JULY 24-30	732.50	15	0.02	441	0.60	2934	4.01	3	0.00	0	0.00
JULY 31-AUG 6	235.50	26	0.11	738	3.13	0	0.00	1	0.00	0	0.00
AUG 7-13	324.50	47	0.14	1163	3.58	0	0.00	5	0.02	0	0.00
AUG 14-20	632.50	13	0.02	455	0.72	3807	6.02	0	0.00	0	0.00
AUG 21-27	107.00	14	0.13	159	1.49	0	0.00	0	0.00	0	0.00
AUG 28-SEPT 3	162.00	26	0.16	406	2.51	0	0.00	0	0.00	0	0.00
SEPT 4-10	136.00	20	0.15	235	1.73	0	0.00	1	0.01	0	0.00
SEPT 11-17	126.50	25	0.20	185	1.46	119	0.94	0	0.00	0	0.00
SEPT 18-24	248.50	18	0.07	261	1.05	2369	9.53	0	0.00	8	0.03
SEPT 25-OCT 1	327.00	4	0.01	55	0.17	3374	10.32	0	0.00	36	0.11
TOTAL	3885.50	589		6338		12603		16		44	

Table 3. 1988 West Coast Troll Log Program. Average and Maximum Hours Fished and Catch per Vessel for Years 1984-1988.

OUTSIDE (Statistical Areas 1-12, 21-27)

Year	Number Vessels	Hours Fished		Chinook		Coho		Sockeye		Pink		Chum	
		Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum
1984	69	931.0	1523.5	646	1849	2258	10072	37	187	1334	16745	95	1133
1985	82	848.0	1389.0	465	1457	1661	4805	728	2714	3032	12214	462	1706
1986	79	685.0	925.5	354	1392	3550	10426	1433	3221	1117	21117	506	2088
1987	86	533.0	797.0	468	1212	2011	8463	366	1438	2557	17096	63	528
1988	87	603.1	947.5	491	1317	1658	5205	116	769	2483	27331	172	1199

INSIDE (Statistical Areas 13-18 & 29)

Year	Number Vessels	Hours Fished		Chinook		Coho		Sockeye		Pink		Chum	
		Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum
1985	21	369.0	658.5	426	1603	1107	4242	244	910	426	1523	2	10
1986	18	515.0	852.5	275	844	1473	5411	730	2534	<1	6	<1	4
1987	25	538.0	815.0	217	722	1524	3895	418	1214	627	3703	<1	10
1988	23	565.3	807.5	125	413	2244	5176	555	1693	123	871	5	57

Table 4. 1988 West Coast Troll Log Program. Average Catch Per Unit Effort for Chinook and Coho in Combined Statistical Areas for Years 1984-1988.

Grouped Area	Chinook					Coho				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
OUTSIDE										
1 - 5	0.62	0.64	0.58	0.59	0.74	1.52	1.64	4.91	2.26	1.47
6 - 12	0.62	0.31	0.32	0.85	0.50	2.44	1.71	6.17	2.18	3.13
21 - 24	0.91	0.78	0.98	1.63	1.02	6.33	3.48	8.61	8.06	3.96
25 - 27	0.60	0.29	0.21	1.00	1.25	4.00	2.18	2.05	3.21	2.95
INSIDE										
13 - 16	NO	1.46	0.59	0.40	0.25	NO	3.72	3.63	3.32	4.97
17 - 18 & 29	PROGRAM	0.21	0.59	0.40	0.15	PROGRAM	0.80	0.68	1.15	1.63

Table 5. 1988 West Coast Troll Log Program. Average Catch and Effort (hours fished) per Vessel by OUTSIDE Trollers (Areas 1-12, 21-27) for Years 1984-1988.

		Year				
		1984	1985	1986	1987	1988
	Number of Boats:	69	82	79	86	87
	Total hours fished:	64246.0	69572.0	54099.0	45829.0	52468.0
	Average hours per vessel:	931	848	685	533	603
	Total days logged:	5081	5537	4220	3675	4104
	Average log days per vessel:	74	68	53	43	47
	Average hours fished per log day:	12.6	12.6	12.8	12.5	12.8
CHINOOK	Kept:	44579	38122	28004	* 39957	* 42501
	Total hours:	64246.0	69572.0	54099.0	43076.5	46428.5
	Per boat:	646	465	354	465	489
	Per log day:	8.8	6.9	6.6	11.6	11.7
	Per hour:	0.69	0.55	0.52	0.93	0.92
COHO	Kept:	155777	136172	280463	172975	144267
	Total hours:	64246.0	69572.0	54099.0	45829.0	52468.0
	Per boat:	2258	1661	3550	2011	1658
	Per log day:	30.7	24.6	66.5	47.1	35.2
	Per hour:	2.42	1.96	5.18	3.77	2.75
SOCKEYE	Kept:	2581	59707	* 113154	* 31483	* 9986
	Total hours:	64246.0	69572.0	32584.0	30463.0	20960.5
	Per boat:	37	728	1432	366	115
	Per log day:	0.5	10.8	44.5	12.9	6.10
	Per hour:	0.04	0.86	3.47	1.03	0.48
PINK	Kept:	92040	248621	88276	* 219934	* 215972
	Total hours:	64246.0	69572.0	54099.0	34297.0	39438.0
	Per boat:	1334	3032	1117	2557	2482
	Per log day:	18.1	44.9	20.9	80.2	70.1
	Per hour:	1.43	3.57	1.63	6.41	5.48
CHUM	Kept:	6562	37879	39947	5393	15001
	Total hours:	64246.0	69572.0	54099.0	45829.0	52468.0
	Per boat:	95	462	506	63	172
	Per log day:	1.3	6.8	9.5	1.5	3.7
	Per hour:	0.10	0.54	0.94	0.12	0.29

* Figures vary slightly from the 1987 Troll Log Program data report. The above data have been recalculated to show the catch rate based only on the hours actually fished for each species rather than on total hours fished. Otherwise, "Total hours" for each species is equal to "Total hours fished" for the season.

Table 6. 1988 West Coast Troll Log Program. Average Catch and Effort (hours fished) per Vessel by INSIDE Trollers (Areas 13-18 & 29) for Years 1985-1988.

		Year			
		1985	1986	1987	1988
	Number of boats:	21	18	23	23
	Total hours fished:	7758.0	9278.0	12381.5	13003.0
	Average hours per vessel:	369	515	538	565
	Total days logged:	771	961	1398	1406
	Average log days per vessel:	37	53	61	61
	Average hours fished per log day:	10.1	9.7	8.9	9.2
CHINOOK	Kept:	* 8934	* 4943	4994	2886
	Total hours:	7004.5	3197.5	12381.5	13003.0
	Per vessel:	426	275	217	125
	Per log day:	11.6	5.1	3.6	2.1
	Per hour:	1.28	1.24	0.40	0.22
COHO	Kept:	23240	26513	35055	51620
	Total hours:	7758.0	9278.0	12381.5	13003.0
	Per vessel	1107	1473	1524	2244
	Per log day:	30.1	27.6	25.1	36.7
	Per hour:	3.00	2.86	2.83	3.97
SOCKEYE	Kept:	* 5120	* 13131	* 10421	* 12747
	Total hours:	6151.0	2451.0	5473.0	1993.5
	Per vessel:	244	730	454	554
	Per log day:	6.6	13.7	7.5	58.7
	Per hour:	0.83	5.36	1.90	6.39
PINK	Kept:	8951	16	* 14382	2839
	Total hours:	7758.0	9278.0	9177.5	13003.0
	Per vessel:	426	<1	627	123
	Per log day:	11.6	-	10.3	2.0
	Per hour:	1.15	-	1.57	0.22
CHUM	Kept:	35	10	10	108
	Total hours:	7758.0	9278.0	12381.5	13003.0
	Per vessel:	2	<1	<1	5
	Per log day:	0.05	-	-	0.1
	Per hour:	<0.01	-	-	0.01

* Figures vary slightly from the 1987 Troll Log Program data report. The above data have been recalculated to show the catch rate based only on the hours actually fished for each species rather than on total hours fished. Otherwise, "Total hours" for each species is equal to "Total hours fished" for the season.

Table 7. 1988 West Coast Troll Log Program. Effort (hours fished) in Individual Areas expressed as a Percentage of Total Effort by Troll Log Fishermen in Combined Areas.

Statistical Area	1984		1985		1986		1987		1988	
	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent	Hours	Percent
1	17983.0	79.2	17832.0	67.1	12895.0	71.4	11513.5	60.1	11512.5	65.1
2E	1324.0	5.8	1635.0	6.1	2773.0	15.3	3137.5	16.4	1632.5	9.2
2W	3162.5	13.9	6241.0	23.5	1116.0	6.2	3099.5	16.2	1737.5	9.9
3	5.5	0.1	134.5	0.5	290.5	1.6	677.0	3.5	1131.0	6.4
4	166.0	0.7	425.5	1.6	198.5	1.1	558.5	2.9	567.0	3.2
5	76.5	0.3	321.5	1.2	792.5	4.4	170.0	0.9	1092.0	6.2
1 - 5	22711.5	100.0	26589.5	100.0	18065.5	100.0	19156.0	100.0	17672.5	100.0
6	617.5	5.0	833.5	7.7	848.0	8.4	1255.0	16.5	850.5	10.5
7	4525.0	36.6	2447.5	22.7	1206.5	11.9	817.0	10.8	1061.0	13.1
8	1097.0	8.9	503.5	4.7	138.5	1.4	93.5	1.2	36.0	0.4
9	467.0	3.8	76.0	0.7	360.5	3.6	67.0	0.9	713.0	8.8
10	1507.0	12.2	1173.0	10.9	1319.5	13.0	420.0	5.5	447.0	5.5
11	4120.5	33.3	5444.5	50.6	6195.5	61.2	4756.0	62.7	4730.0	58.3
12	29.0	0.2	293.5	2.7	51.0	0.5	182.0	2.4	275.5	3.4
6 - 12	12363.0	100.0	10771.5	100.0	10119.5	100.0	7590.5	100.0	8113.0	100.0
21	2838.0	16.7	3731.0	21.4	1057.5	9.1	668.0	6.3	1397.5	10.0
23	10169.5	59.8	9195.5	52.8	6450.5	55.5	4324.0	40.4	6266.0	44.7
24	4000.5	23.5	4487.5	25.8	4123.0	35.4	5700.5	53.3	6342.0	45.3
21 - 24	17008.0	100.0	17414.0	100.0	11631.0	100.0	10692.5	100.0	14005.5	100.0
25	2246.0	18.5	5235.5	35.4	4432.5	31.0	2163.5	25.8	2966.0	23.4
26	2944.5	24.2	3260.5	22.0	2596.5	18.2	1361.0	16.2	2161.0	17.0
27	6959.0	57.3	6301.0	42.6	7254.5	50.8	4865.5	58.0	7550.0	59.6
25 - 27	12149.5	100.0	14797.0	100.0	14283.5	100.0	8390.0	100.0	12677.0	100.0
13			995.0	17.1	152.0	2.2	946.0	9.9	342.5	3.7
14	No Program		3279.0	56.3	4910.0	71.6	6400.0	66.8	7308.5	80.2
15	in 1984		1010.5	17.4	1311.5	19.1	961.0	10.0	681.0	7.5
16			539.0	9.2	484.0	7.1	1275.0	13.3	785.5	8.6
13 - 16			5823.5	100.0	6857.5	100.0	9582.0	100.0	9117.5	100.0
17			280.0	14.5	615.0	25.4	1053.0	37.6	1782.5	45.9
18	No Program		176.0	9.1	350.5	14.5	715.0	25.5	1134.5	29.2
29	in 1984		1478.5	76.4	1455.0	60.1	1031.5	36.9	968.5	24.9
17-18 & 29			1934.5	100.0	2420.5	100.0	2799.5	100.0	3885.5	100.0

Table 8. 1988 West Coast Troll Log Program. Catch by Troll Log Fishermen expressed as a Percentage of Total B.C. Commercial Troll Catch in Combined Areas.

Grouped Area	Percent Chinook		Percent Coho		Percent Sockeye		Percent Pink		Percent Chum	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
OUTSIDE										
1 - 5	6.14	6.99	6.98	7.73	4.96	6.14	7.25	6.07	7.56	6.27
6 - 12	11.16	10.94	7.47	13.84	6.66	17.05	6.66	11.69	5.69	12.04
21 - 24	5.59	5.54	6.61	5.40	3.51	6.61	6.63	1.37	0.24	2.53
25 - 27	7.04	9.20	5.23	8.83	6.30	4.09	7.67	4.06	3.78	4.30
INSIDE										
13 - 16	11.39	13.31	16.07	20.25	10.21	4.16	10.14	26.54	1.69	0.35
17 - 18 & 29	27.84	33.35	19.08	28.82	12.52	15.58	8.53	2.64	0.00	2.28

DEPARTMENT OF FISHERIES & OCEANS
PACIFIC BIOLOGICAL STATION
NANAIMO, BRITISH COLUMBIA

TROLL LOG

№ 66759

VESSEL: NORTHERN HAWK CFV NO. 12345

№ 66759

DATE: JULY 20 1988 NO. HOURS FISHED: 16
(LINES IN THE WATER)

LOCATION FISHED: ESTEVAN POINT

(GIVE 1 MAP LOCATION OR 1 LORAN POSITION (2 COORDINATES) FOR LOCATION FISHED MOST OF DAY)

NO. FISH KEPT:

CHINOOK	COHO	SOCKEYE	PINK	CHUM	STEELHEAD		
44	19						

REMARKS:

VESSEL: NORTHERN HAWK CFV NO. 12345 № 66760

DATE: JULY 21 1988 NO. HOURS FISHED: 15.5
(LINES IN THE WATER)

LOCATION FISHED: RAFAEL POINT № 66760

(GIVE 1 MAP LOCATION OR 1 LORAN POSITION (2 COORDINATES) FOR LOCATION FISHED MOST OF DAY)

NO. FISH KEPT:

CHINOOK	COHO	SOCKEYE	PINK	CHUM	STEELHEAD		
28	21						

REMARKS:

Fig. 1. 1988 West Coast Troll Log Program. Example of daily log sheet.

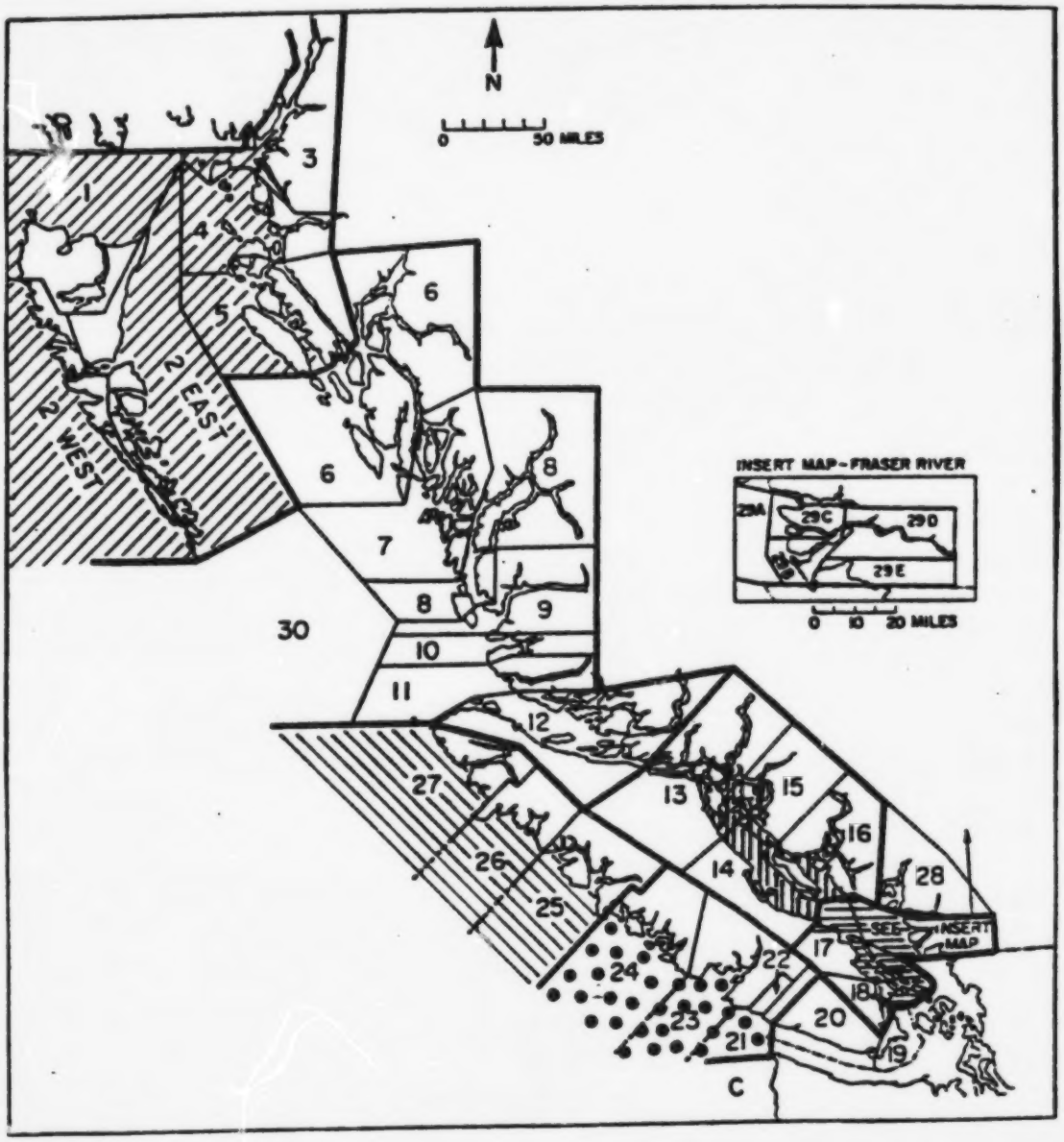

Fig. 2. 1988 West Coast Troll Log Program. Map of statistical areas of British Columbia indicating combined areas.

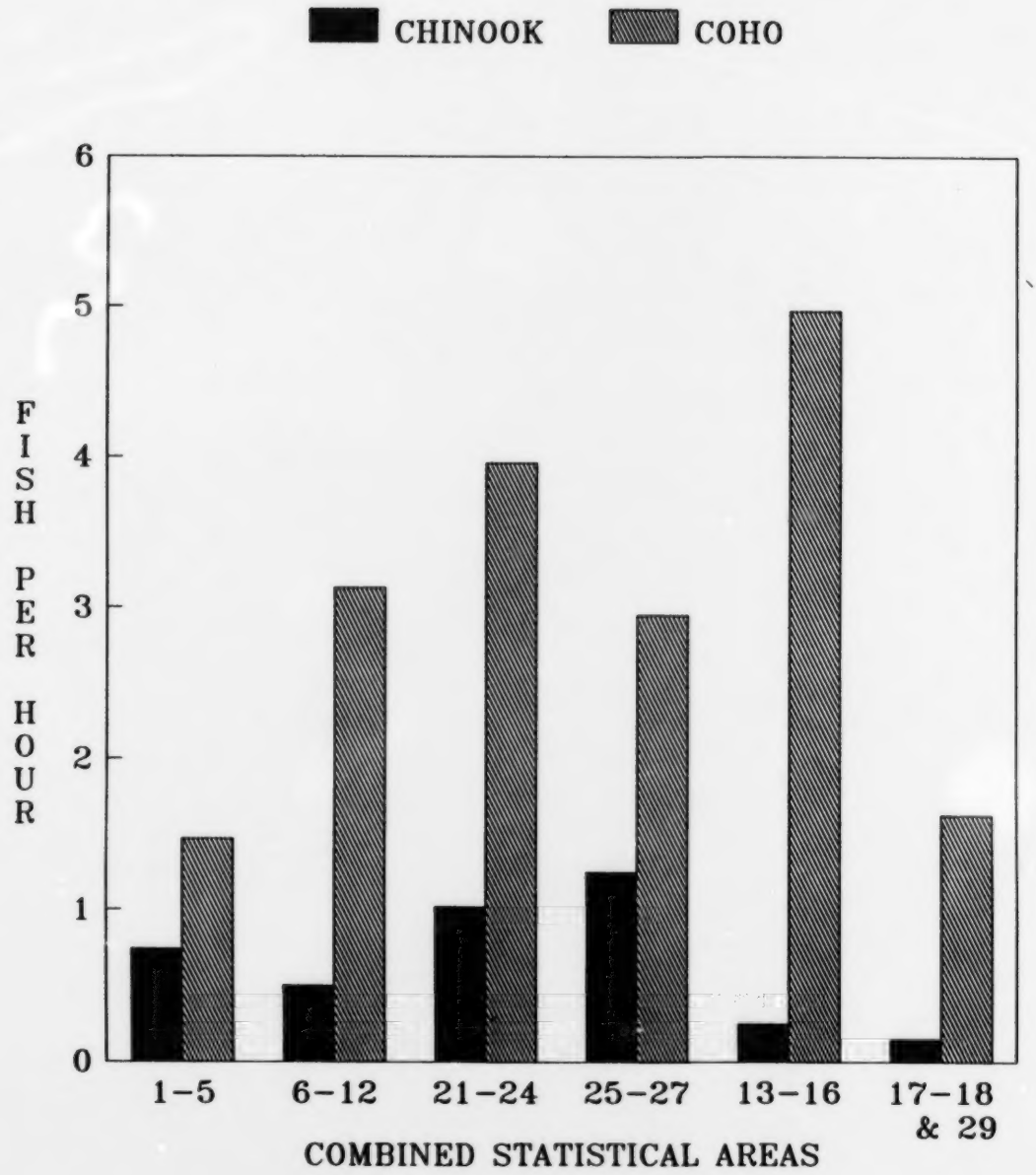

Fig. 3. 1988 West Coast Troll Log Program. Catch Per Unit Effort of Chinook and Coho by Troll Log fishermen in combined areas.

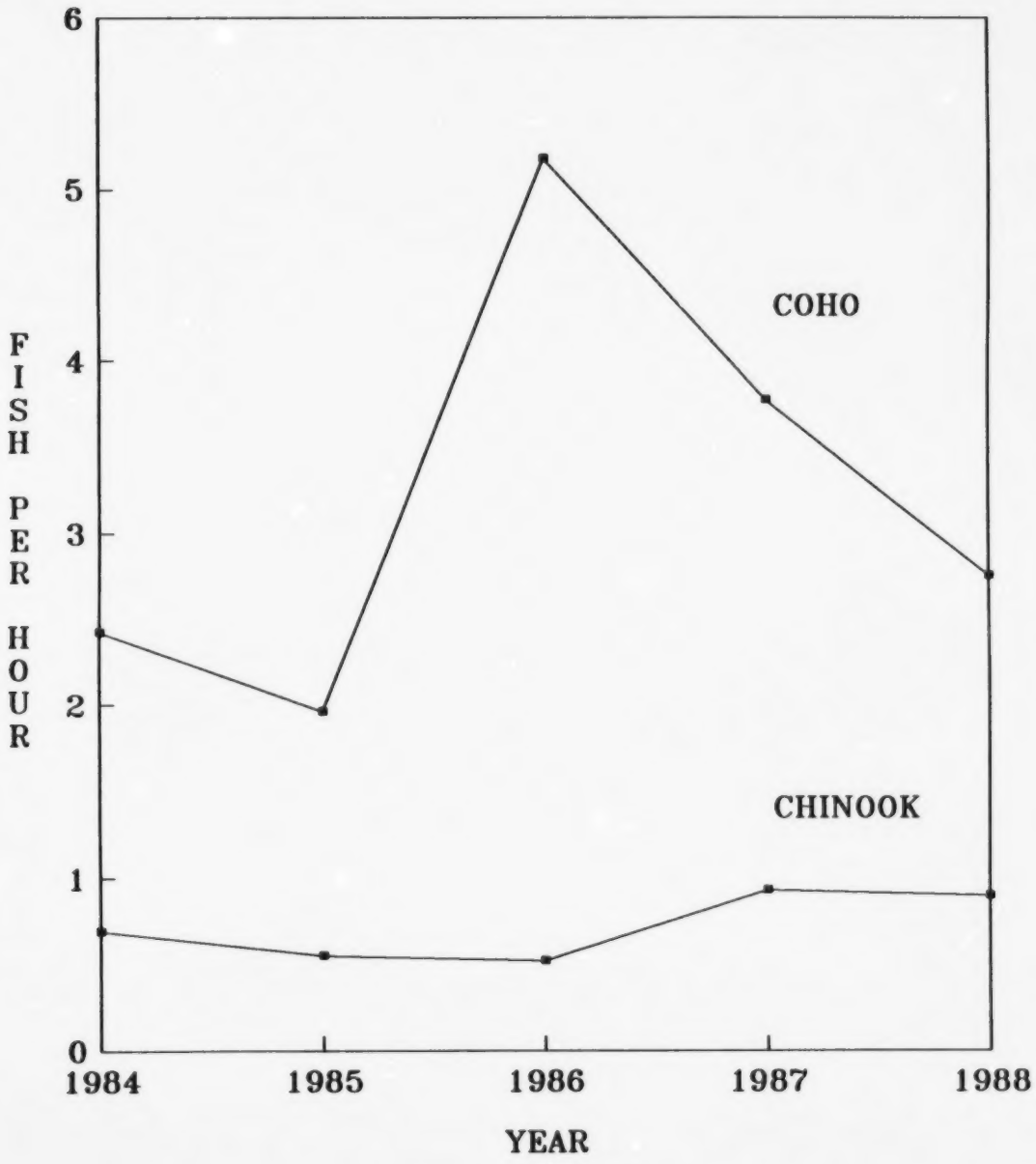

Fig. 4. 1988 West Coast Troll Log Program. Comparison of Catch Per Unit Effort of Chinook and Coho by "Outside" Troll Log fishermen in years 1984-1988.

AREAS 13-18 & 29

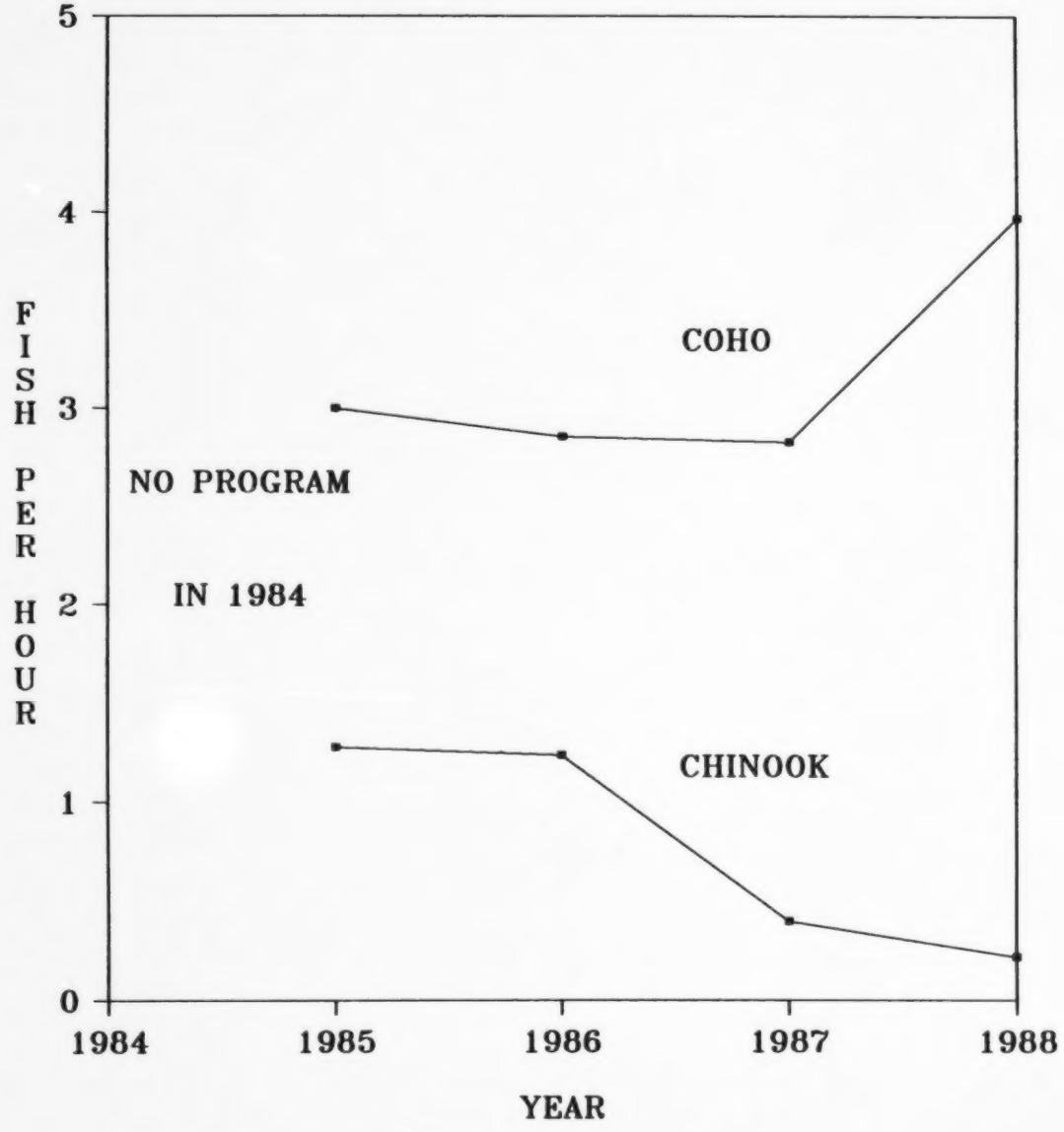

Fig. 5. 1988 West Coast Troll Log Program. Comparison of Catch Per Unit Effort of Chinook and Coho by "Inside" Troll Log fishermen in years 1985-1988.